



# Fire detection and alarm system plan review

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Review of fire detection and alarm systems to be installed in the following building types (referenced to the International Building Code) is required by the State Building Code (Comm Table 61.30-3):

- Atria public building or places of employment
- Public buildings exceeding 60 feet in height
- Educational Group E
- Portions of Institutional Groups I-1 and I-3.
- Mercantile Group M buildings that combine retail areas with rack storage and have floor areas exceeding 50,000 square feet
- Residential Group R-1, R-2
- State owned buildings except hospitals and nursing homes. (all state owned buildings are reviewed by Safety and Buildings)

**In addition, the City of Milwaukee requires review of all automatic fire sprinkler and fire suppression systems to be installed in any building in the City.** The City of Milwaukee also requires review of fire detection and alarm systems within the scope of the State Code noted above.

## Drawing Standards

The drawings must be drawn using standard manual drafting equipment or by computer. Hand drawn sketches will not be accepted.

All drawings must be to scale and in accordance with standard drafting practice, important dimensions must also be indicated by value, i.e. feet and inches. The drawings must have enough contrast so that all lines and lettering are readable and able to be microfilmed for record.

## Submittal Requirements

Unless the plan examiner determines otherwise, four copies of the following items must be provided:

- Floor plans, wiring diagrams, and battery calculations.
- Specifications for the alarm system.
- A site plan showing the location of the building, property lines, and any other site

information to show compliance with code requirements (if needed).

- Record of Completion Form (NFPA 72 fig. 1-6.2.1) and Inspection and Testing Form (NFPA 72 fig. 7-5.2.2) [Fill in as much information as possible; resubmit completed forms at the end of job]
- Any other relevant information needed to determine compliance with code requirements.

## Additional Requirements

For buildings having a volume of more than 50,000 ft<sup>3</sup>, the drawings must be stamped, signed, and dated by a Wisconsin-registered professional engineer or fire protection designer.

A plan review fee is also required. See the [plan review fee customer information sheet](#) for the fee schedule.

Drawings that do not meet these standards will be returned along with the application. The permit cannot be approved until acceptable drawings are submitted and reviewed. Please note that work started without a permit is subject to a quadruple fee.

A submittal is required for an alteration to or replacement of an existing system in which more than 20 devices (pull stations, horns, strobes, etc) are installed and/or replaced.

Rvdsd 060908